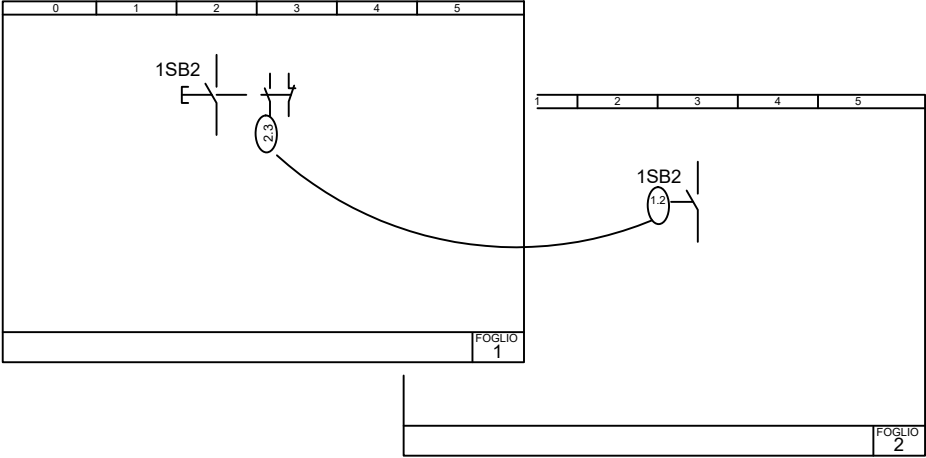
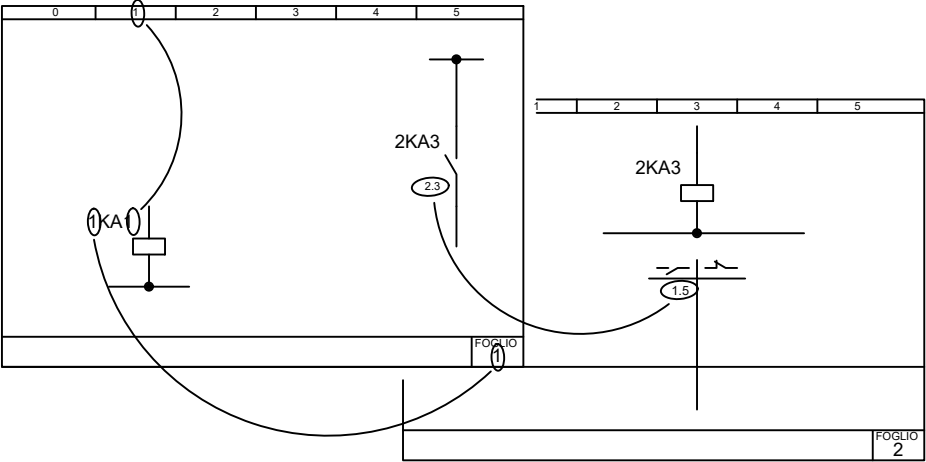


0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
AITALMAC Heng Sheng Road , Gao Chun Economic Development Zone , NANJING,211300 P.R.CHINA										LOCATION SYMBOLS ☐ Components on the door ☐ Components inside the cubicle (usually omitted) ☐ Machine components (usually omitted)									

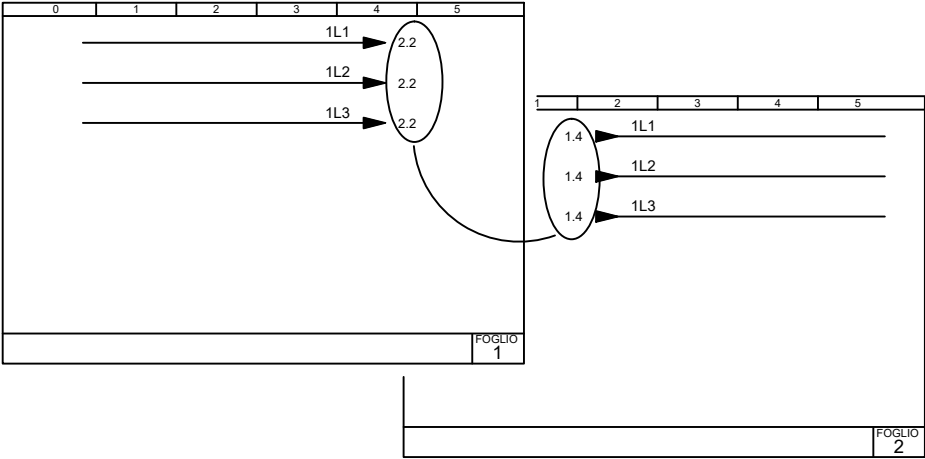
COMPONENT REFERENCE



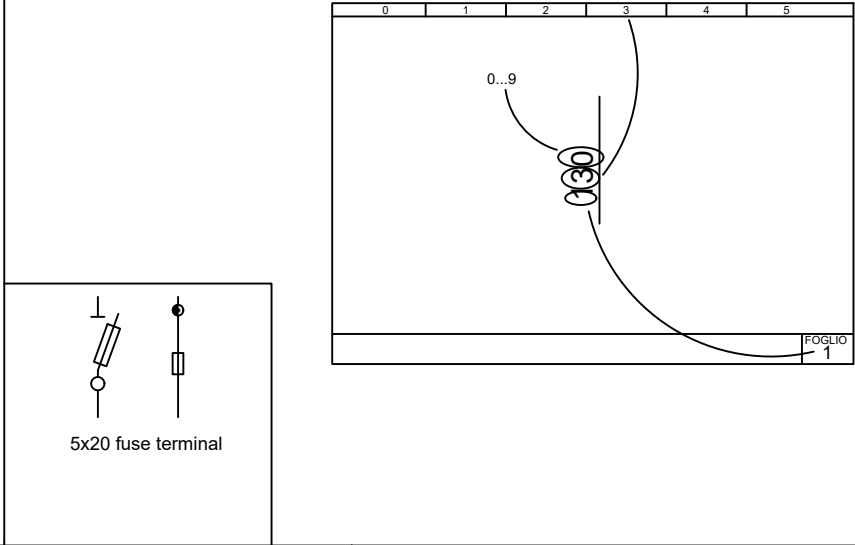
COMPONENT NAME/COIL-CONTACT POSITION

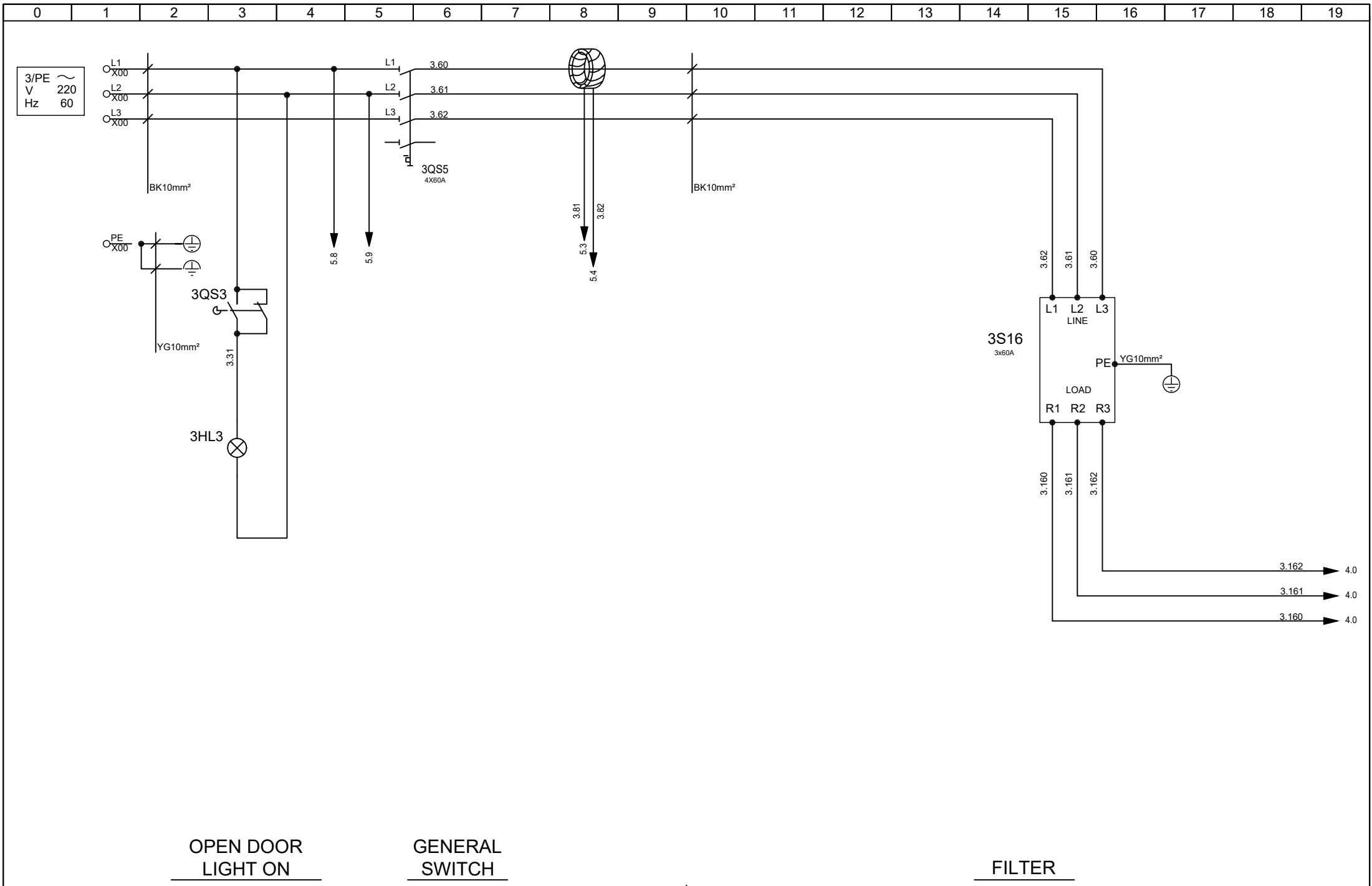


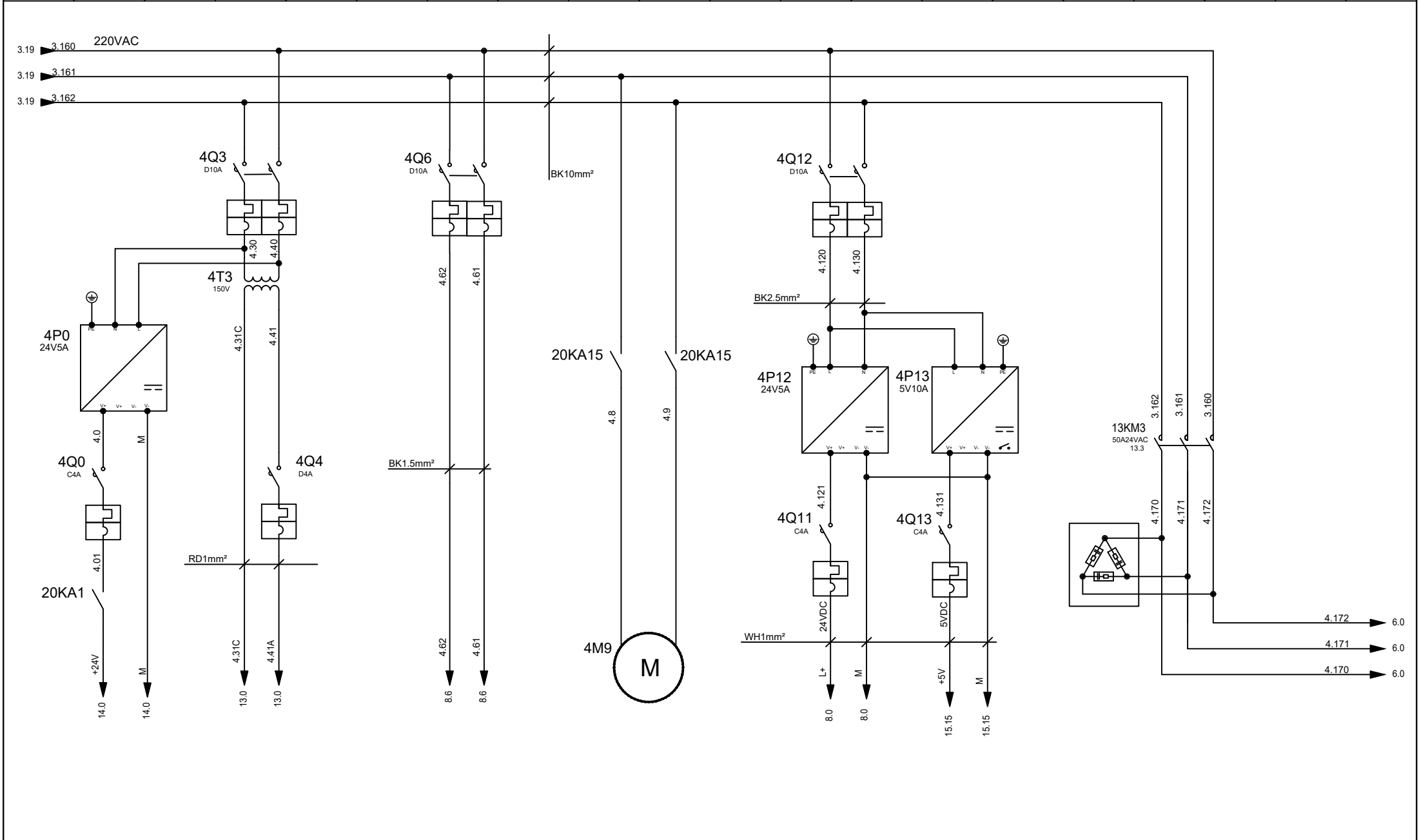
SIGNALS



WIRE NUMBER







AUXILIARY CIRCUIT
POWER SUPPLY

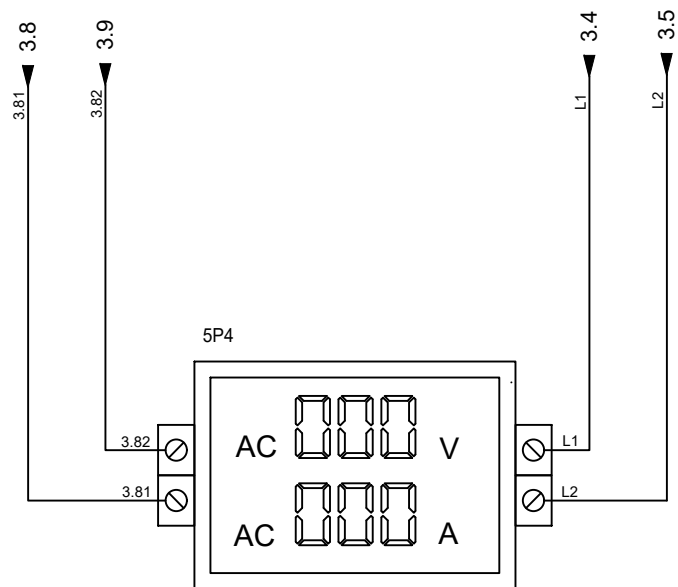
CNC POWER

OIL PUMP
MOTOR

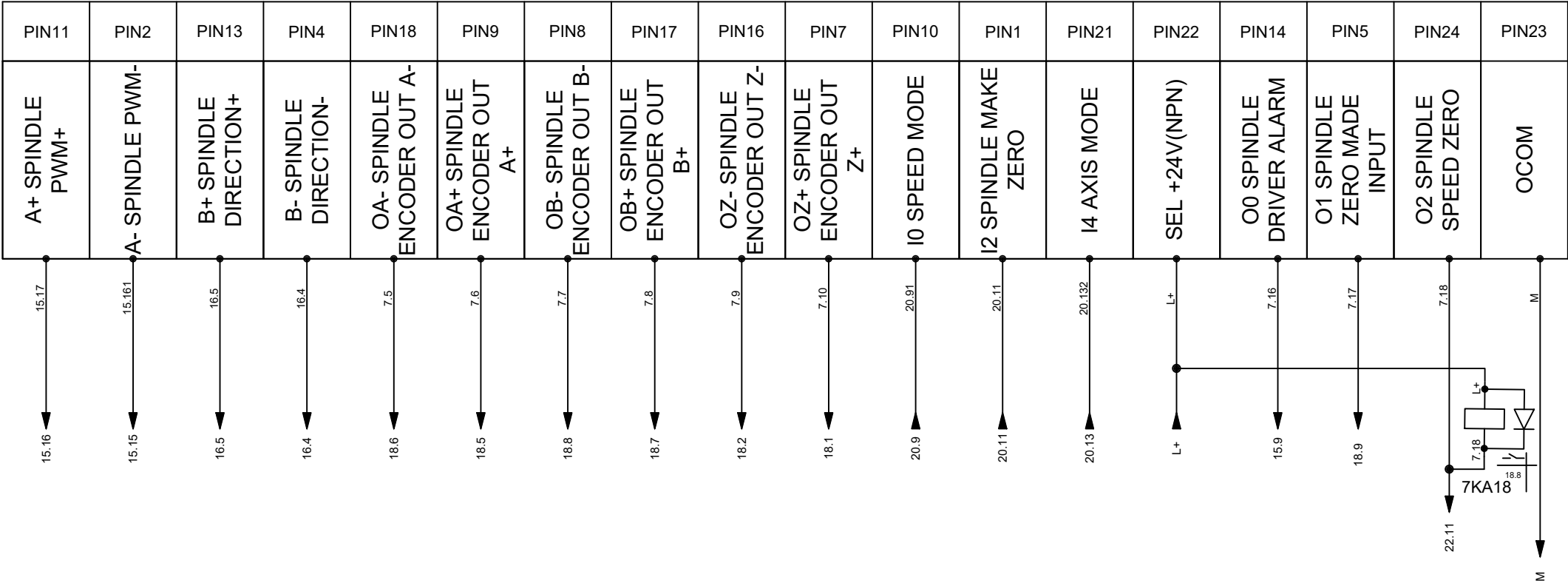
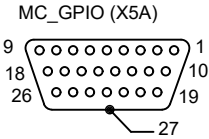
POWER SUPPLY
24VDC4A 5VDC6A

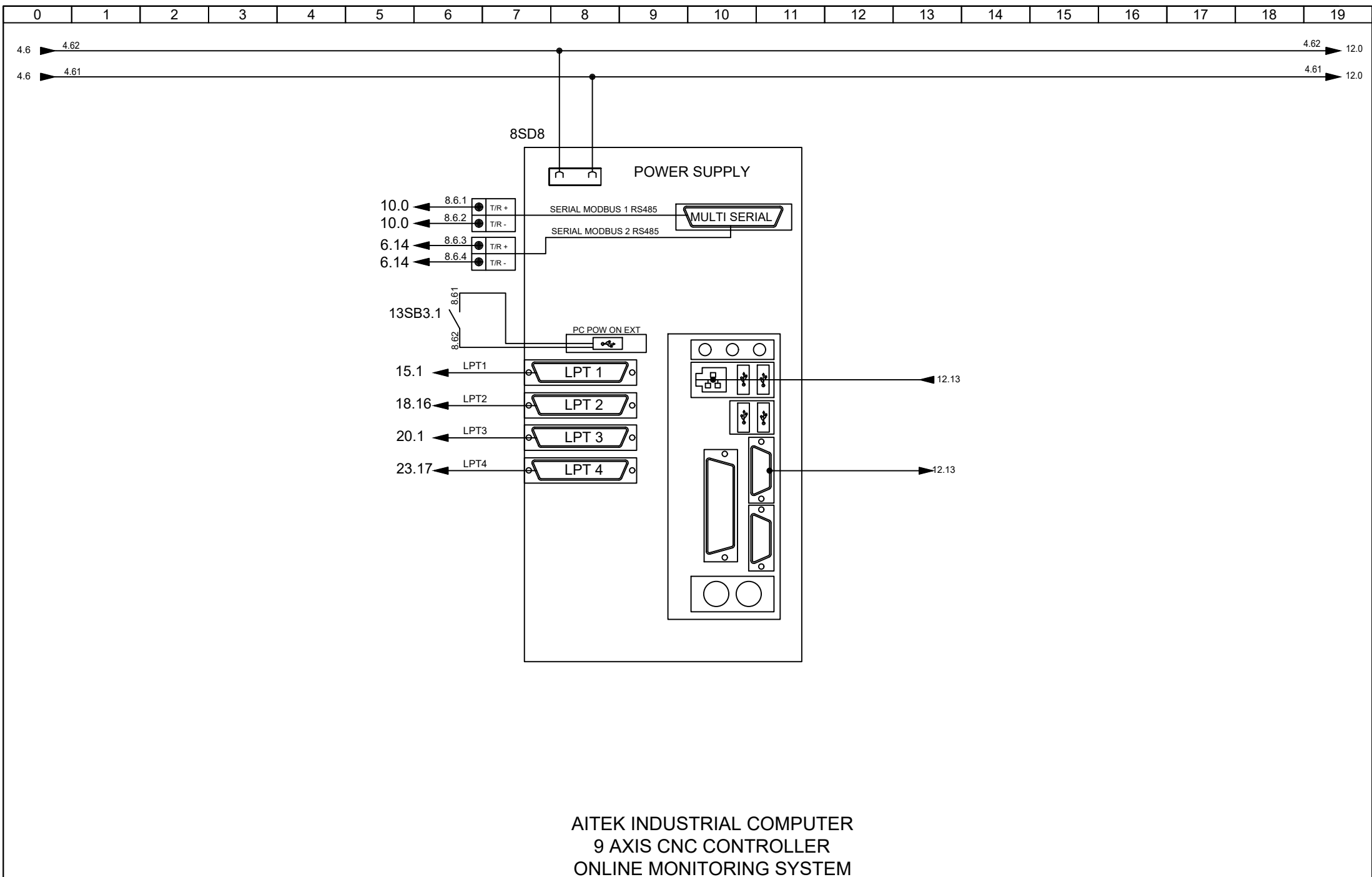
FILTER

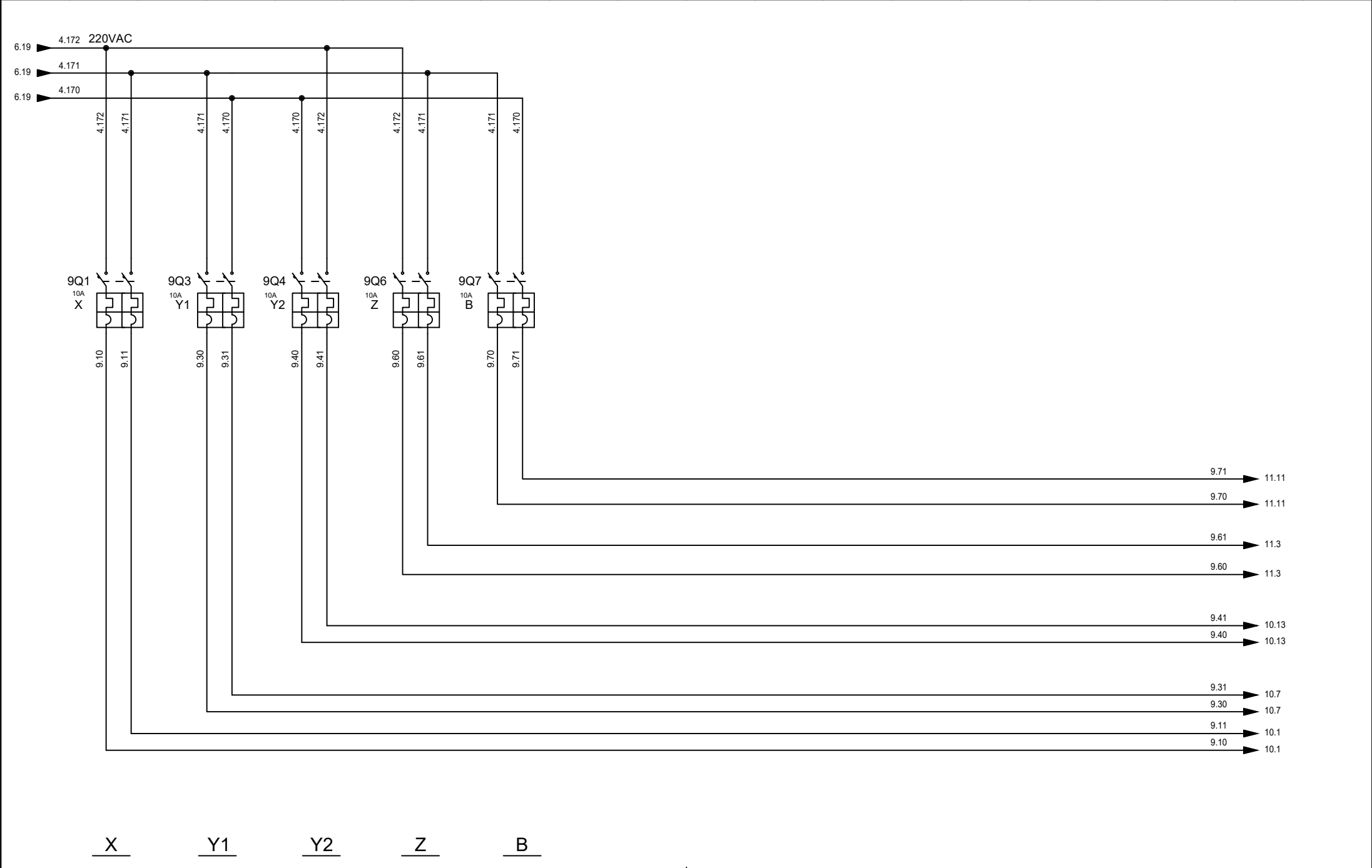
GENERAL
CONTACTOR

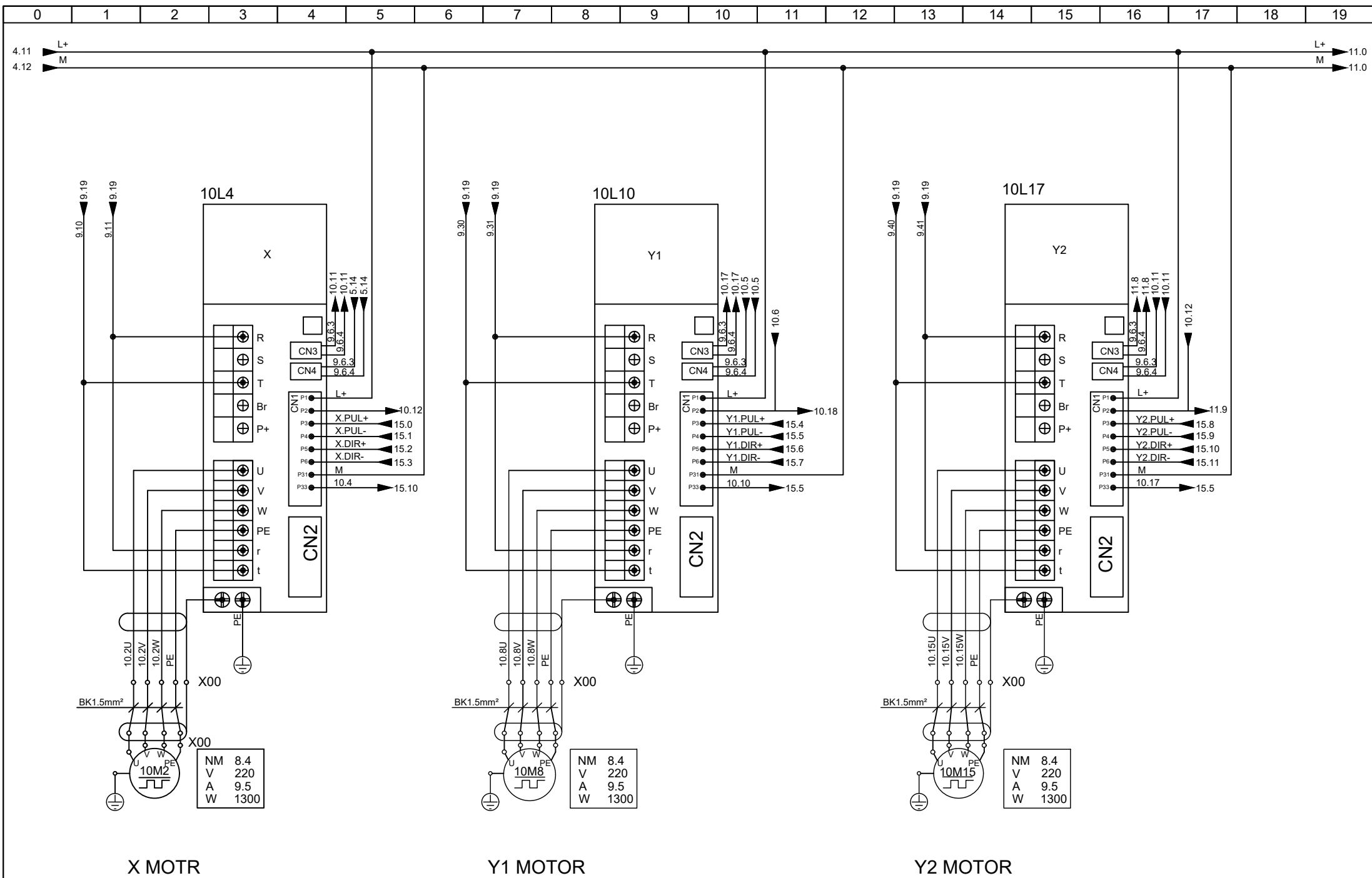


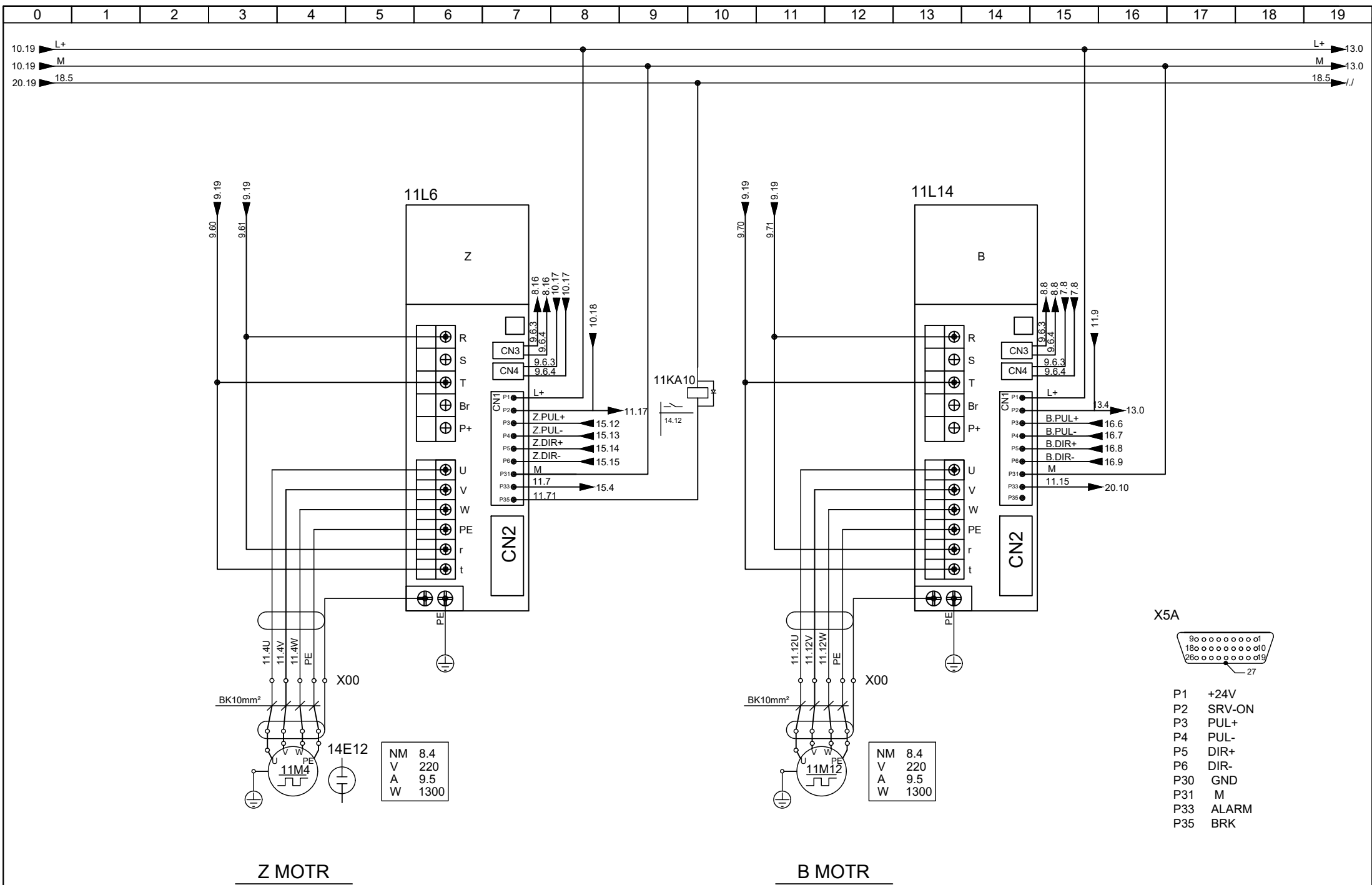
VOLT-AMMETER

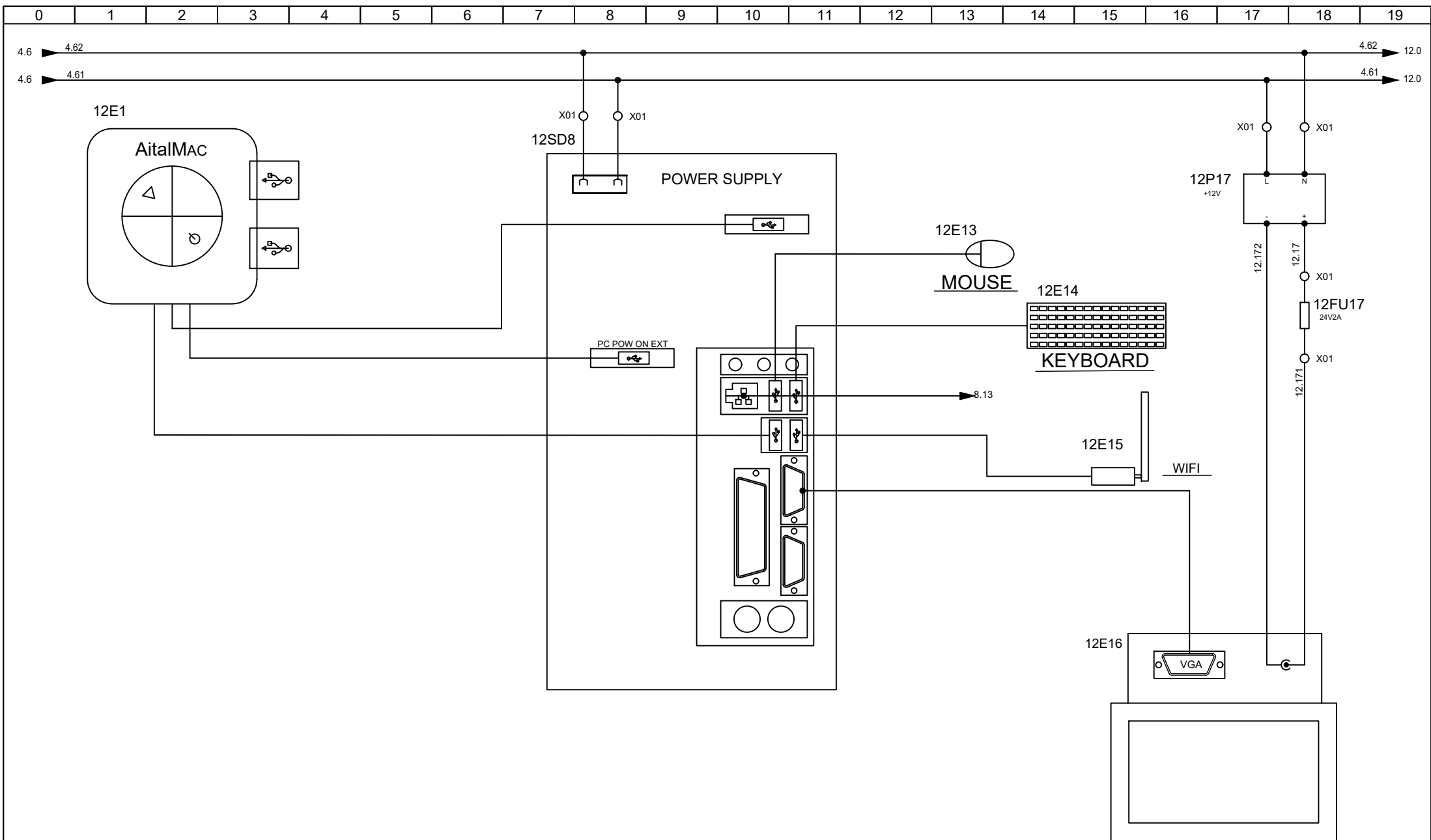








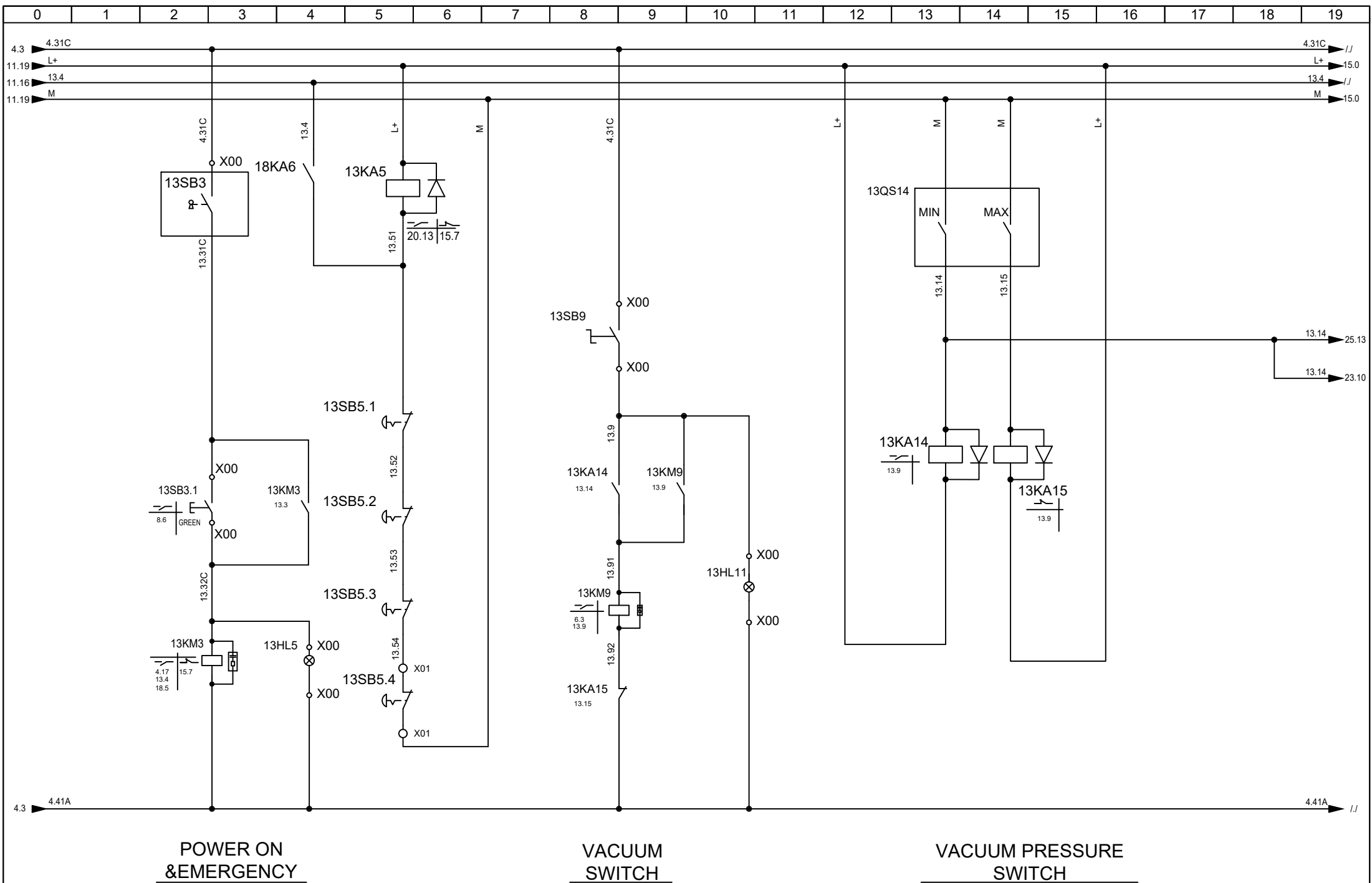




COMPUTER ON/OFF BUTTON
(Outside electric box over the monitor)

WINDOWS PC

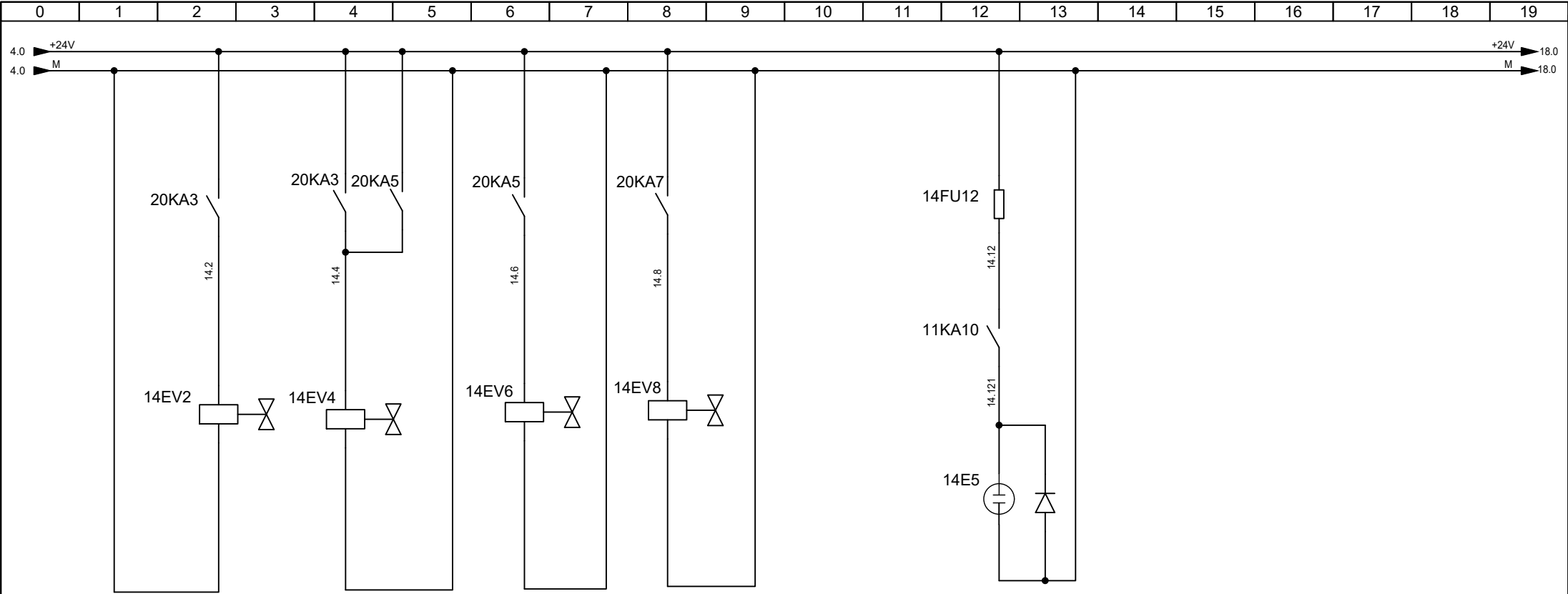
MONITOR

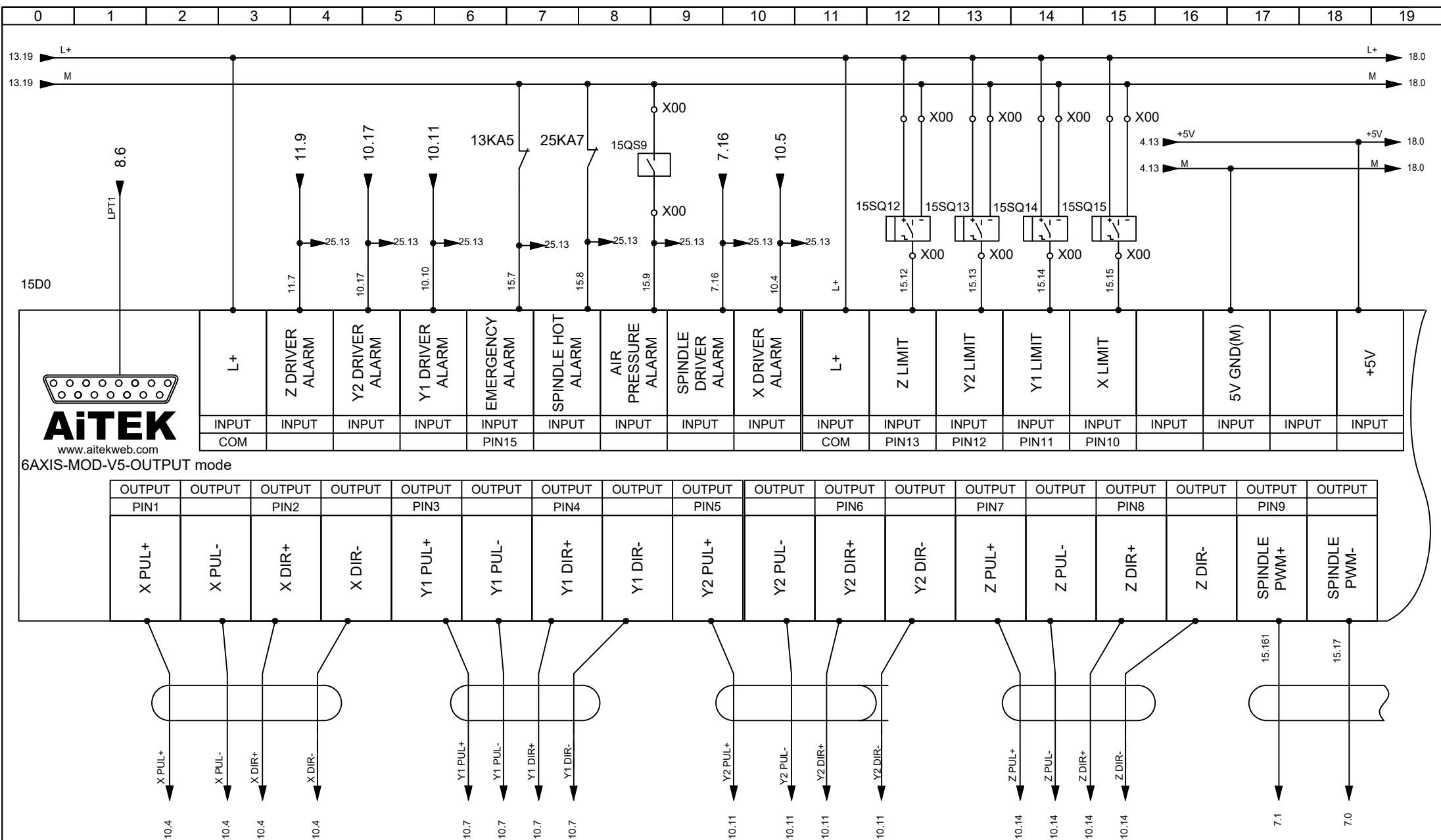


POWER ON
& EMERGENCY

VACUUM
SWITCH

VACUUM PRESSURE
SWITCH





Designed By :

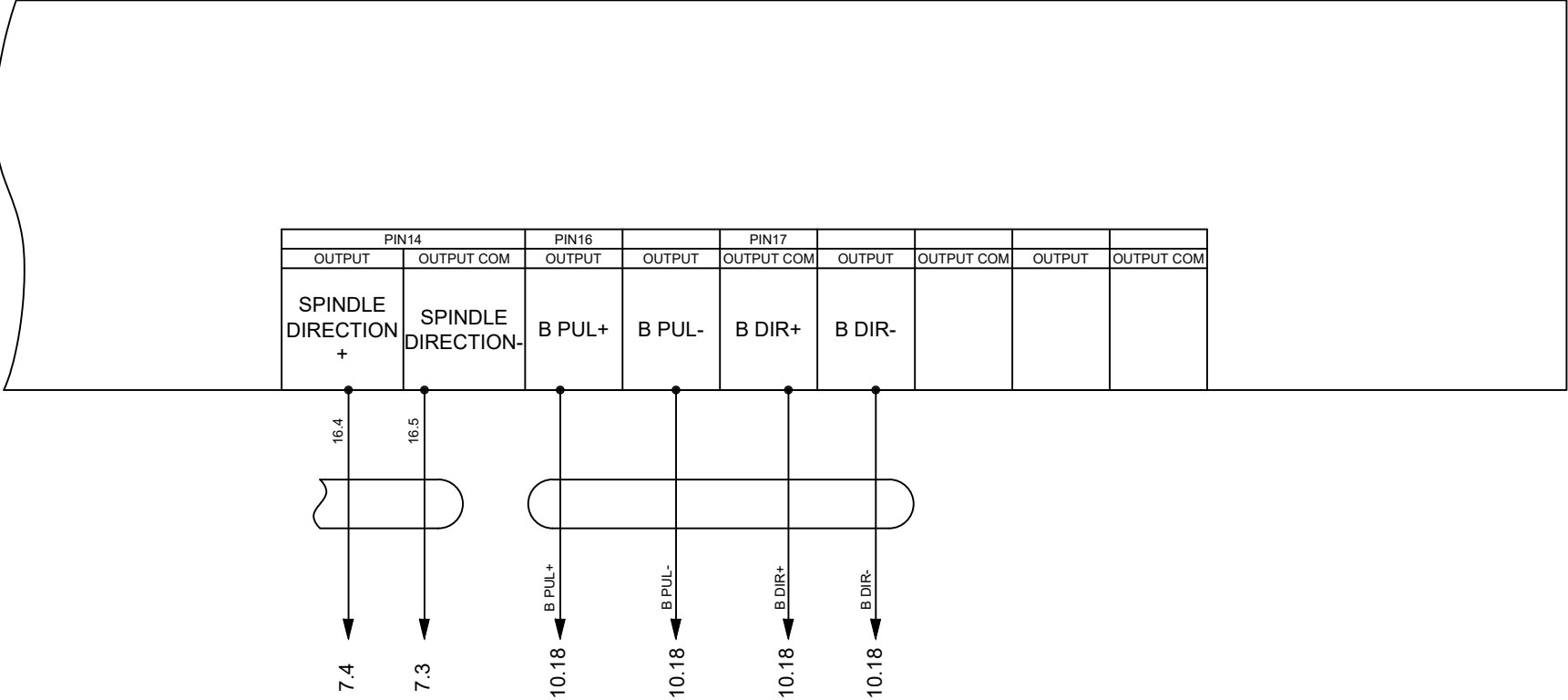
Checked By :

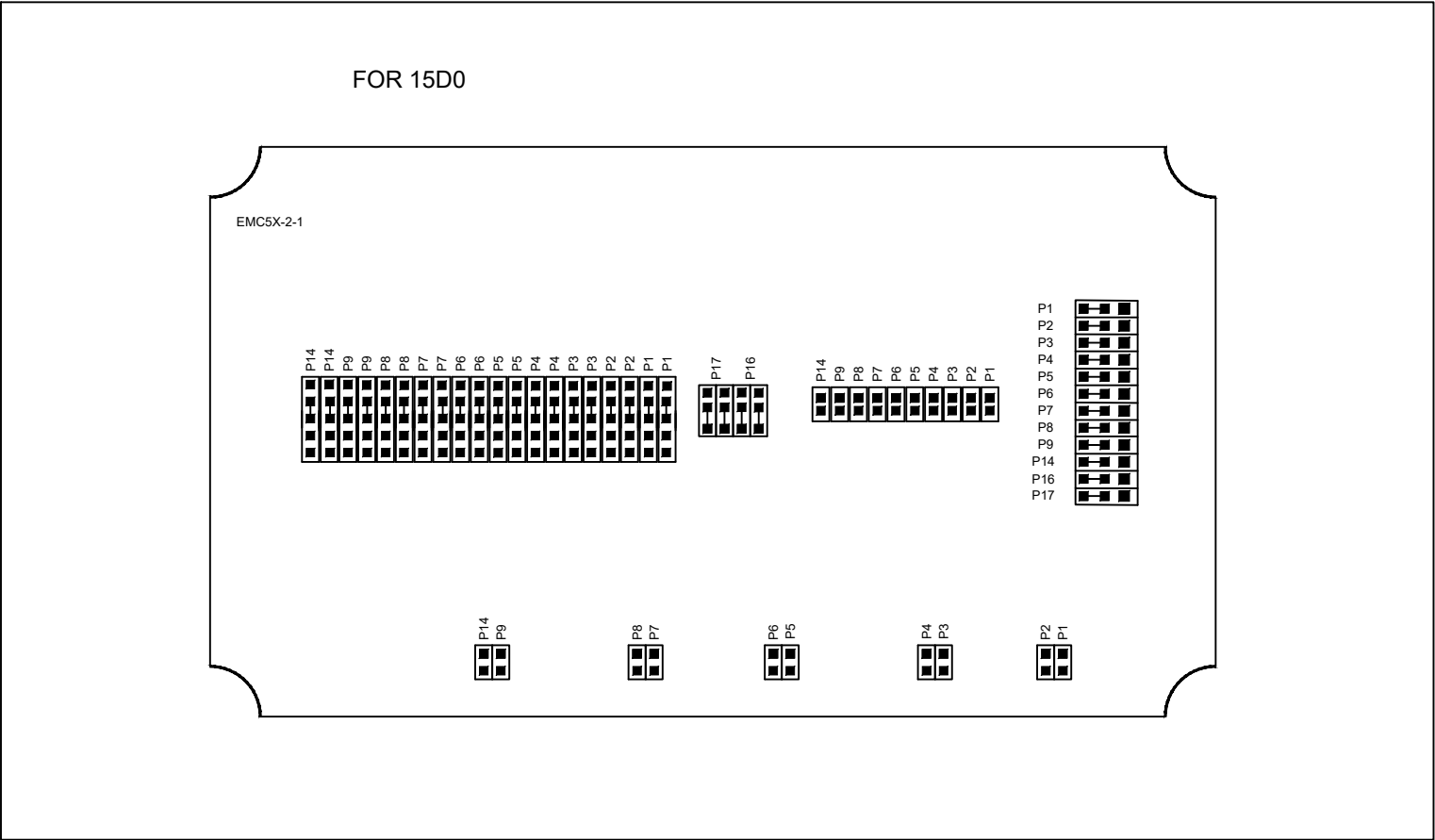
Trimness By :

Description :

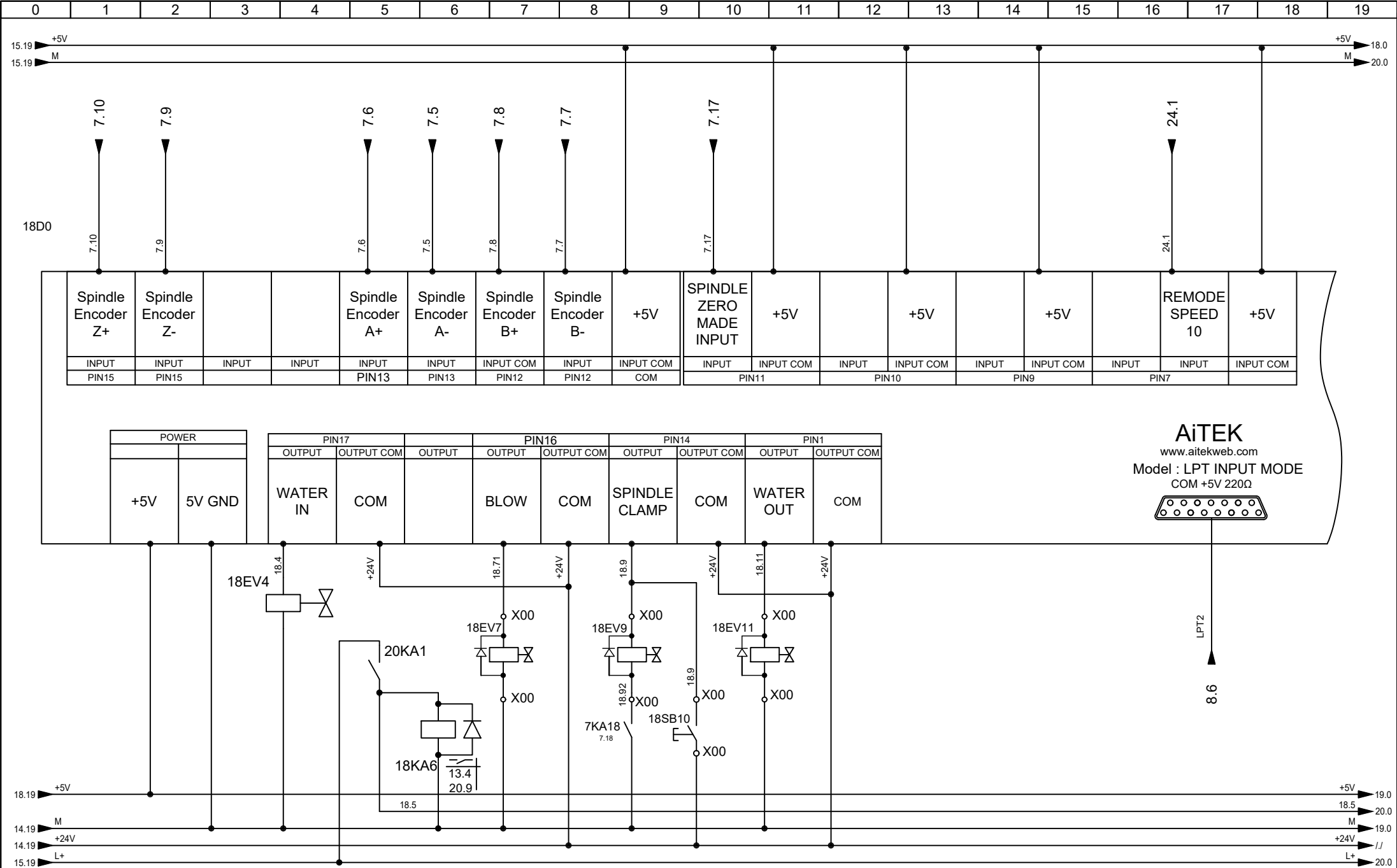
Approved By :	
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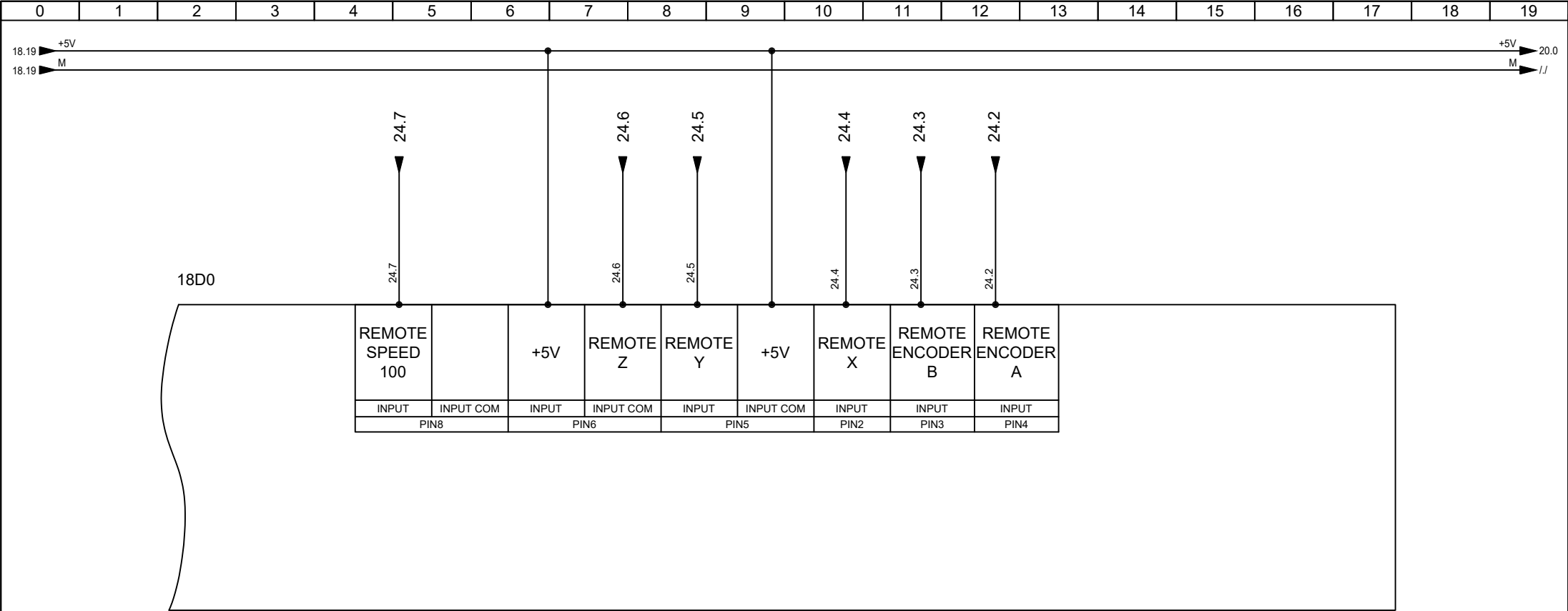
15D0

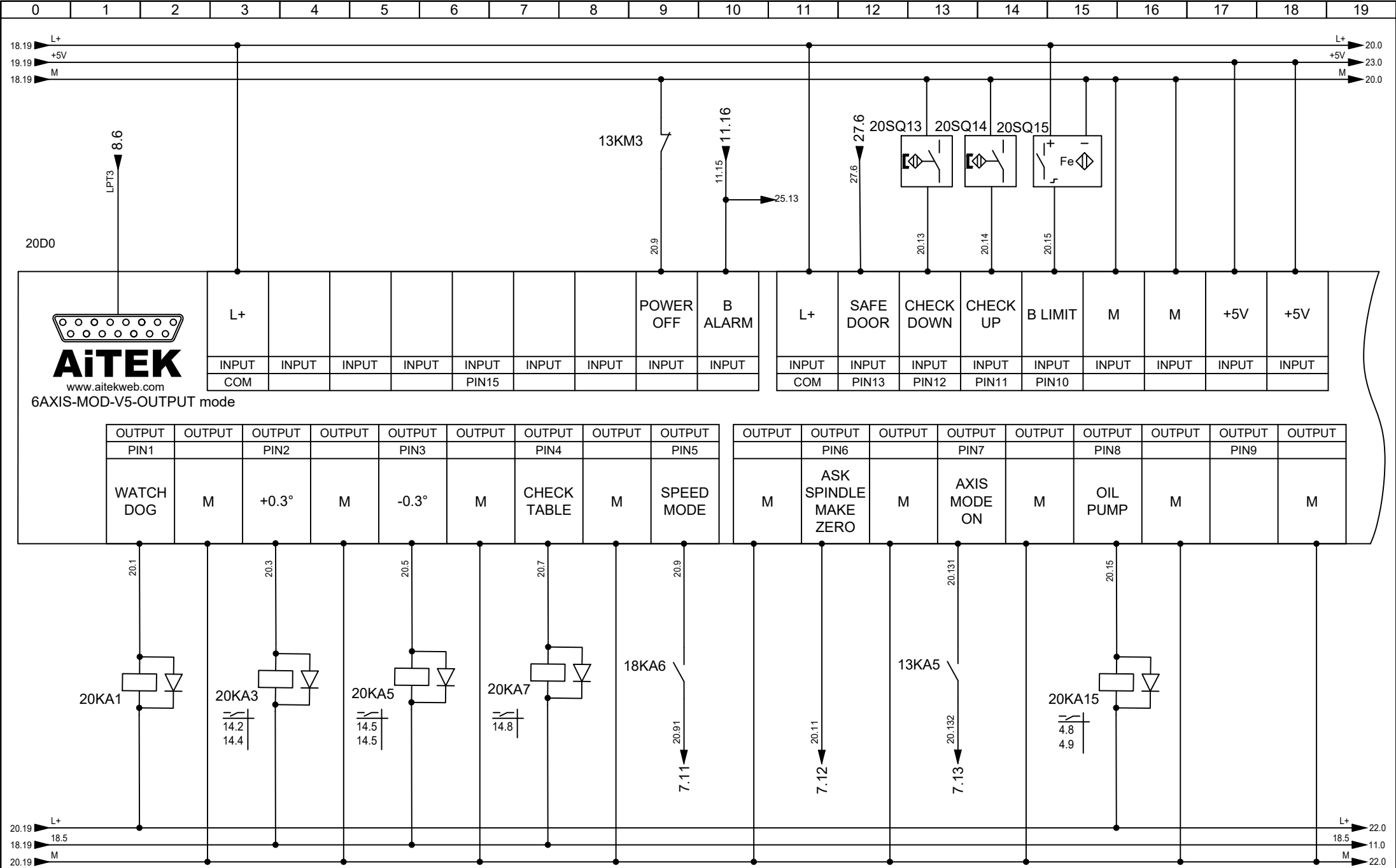


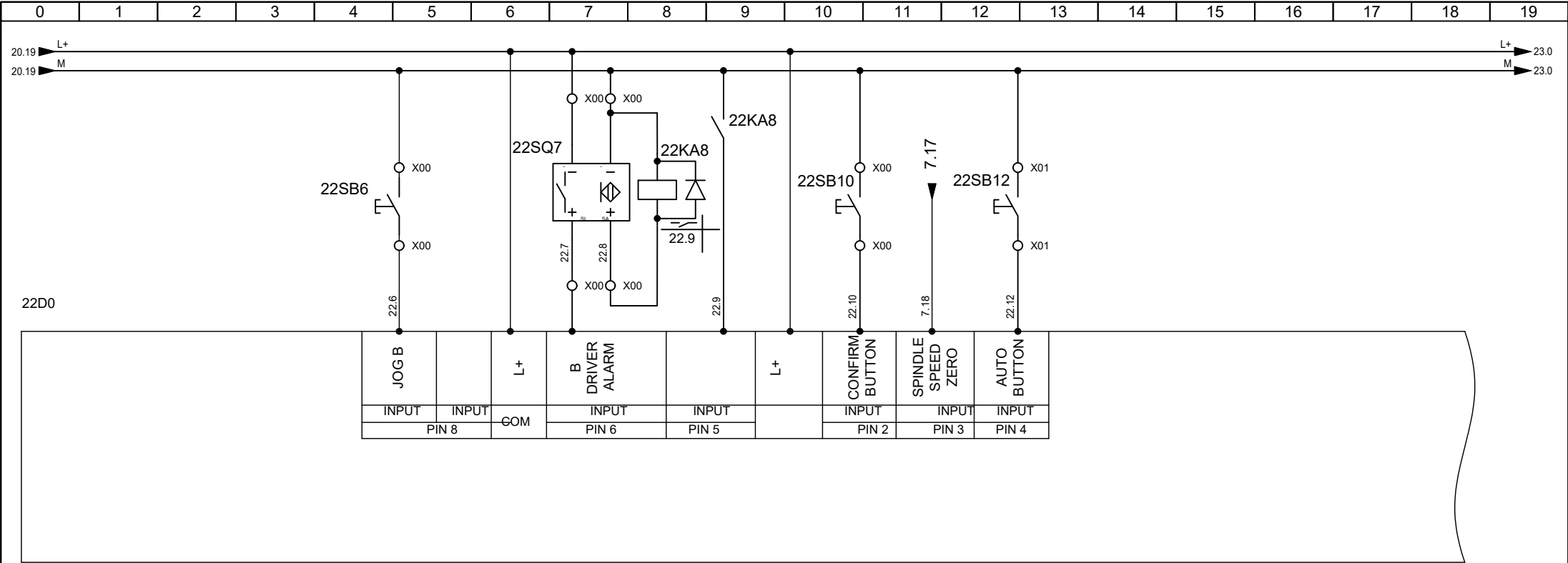


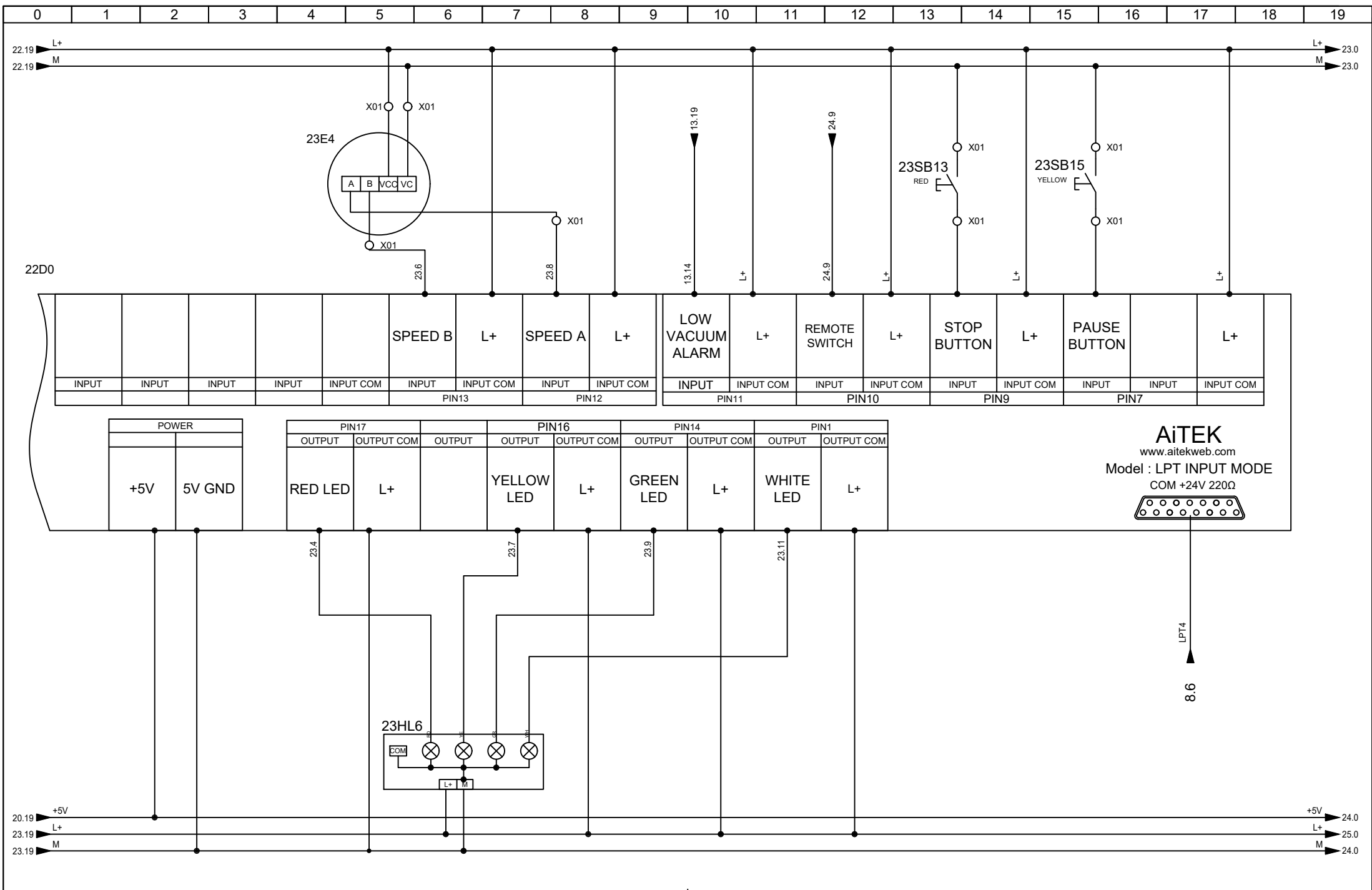
OUTPUT CONTROL CARD JUMPERS SETTINGS

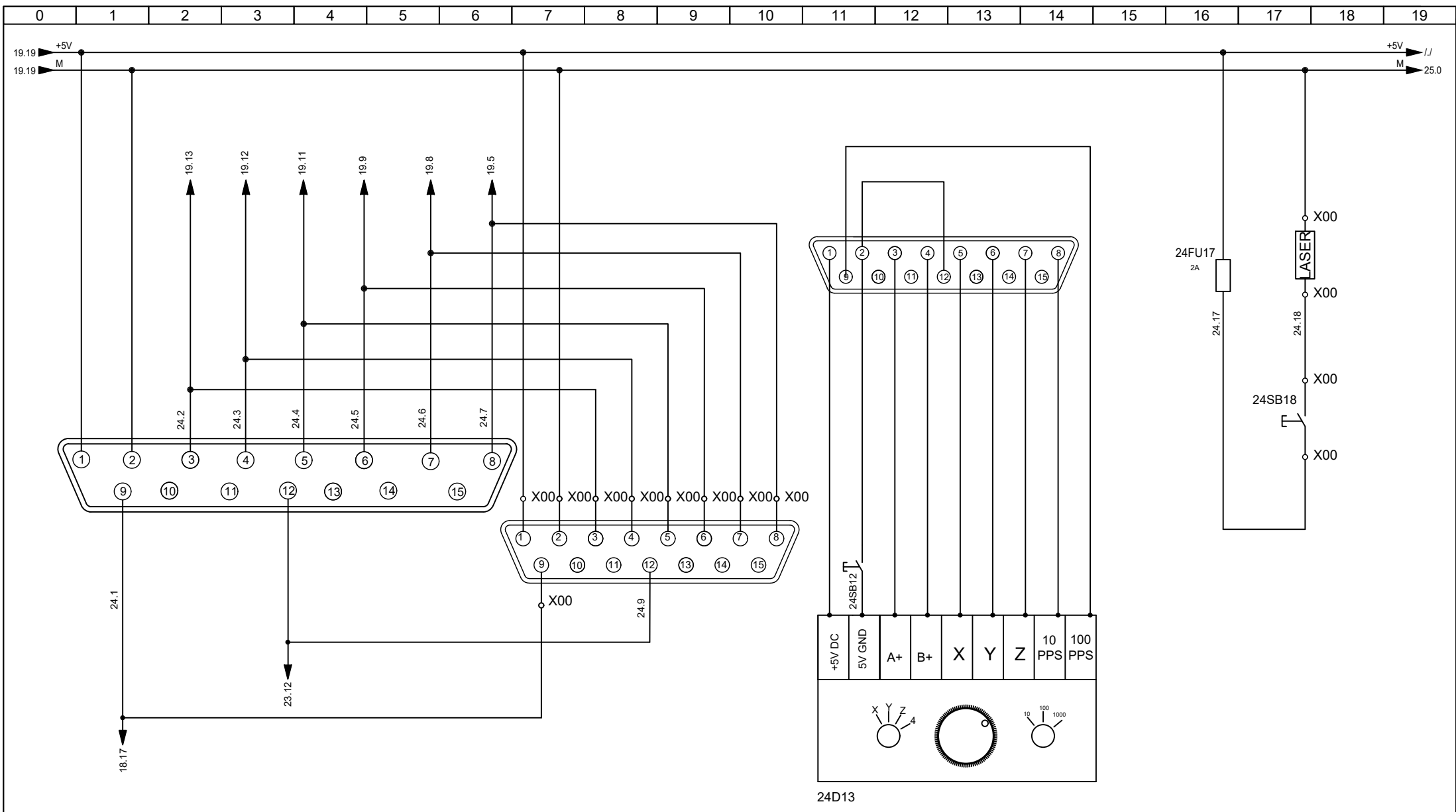










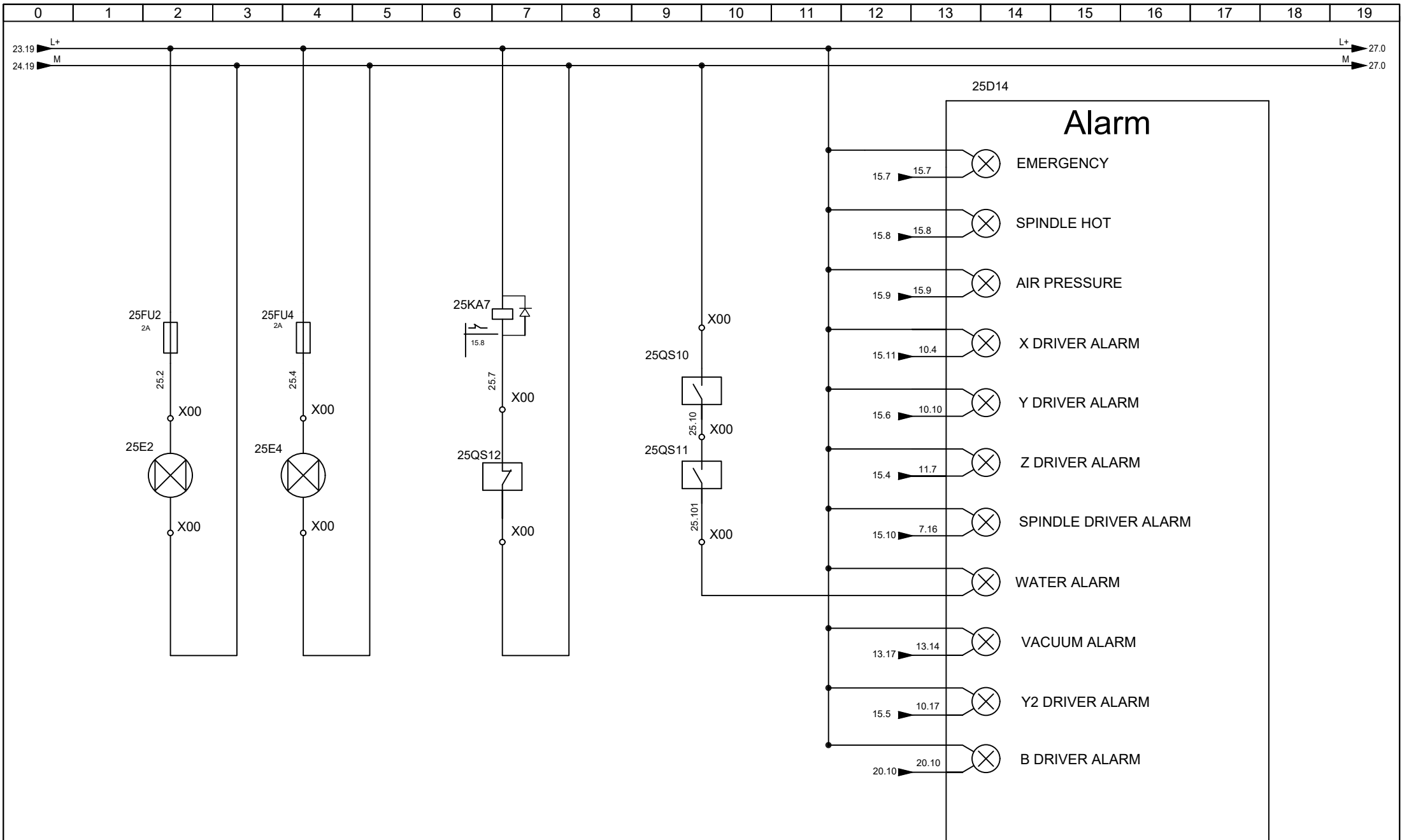


9 PIN CONNECTOR
IN BOX FOR
REMOTE

9 PIN CONNECTOR
IN Y AXIS LEG FOR
REMOTE

REMOTE CONTROL

LASER



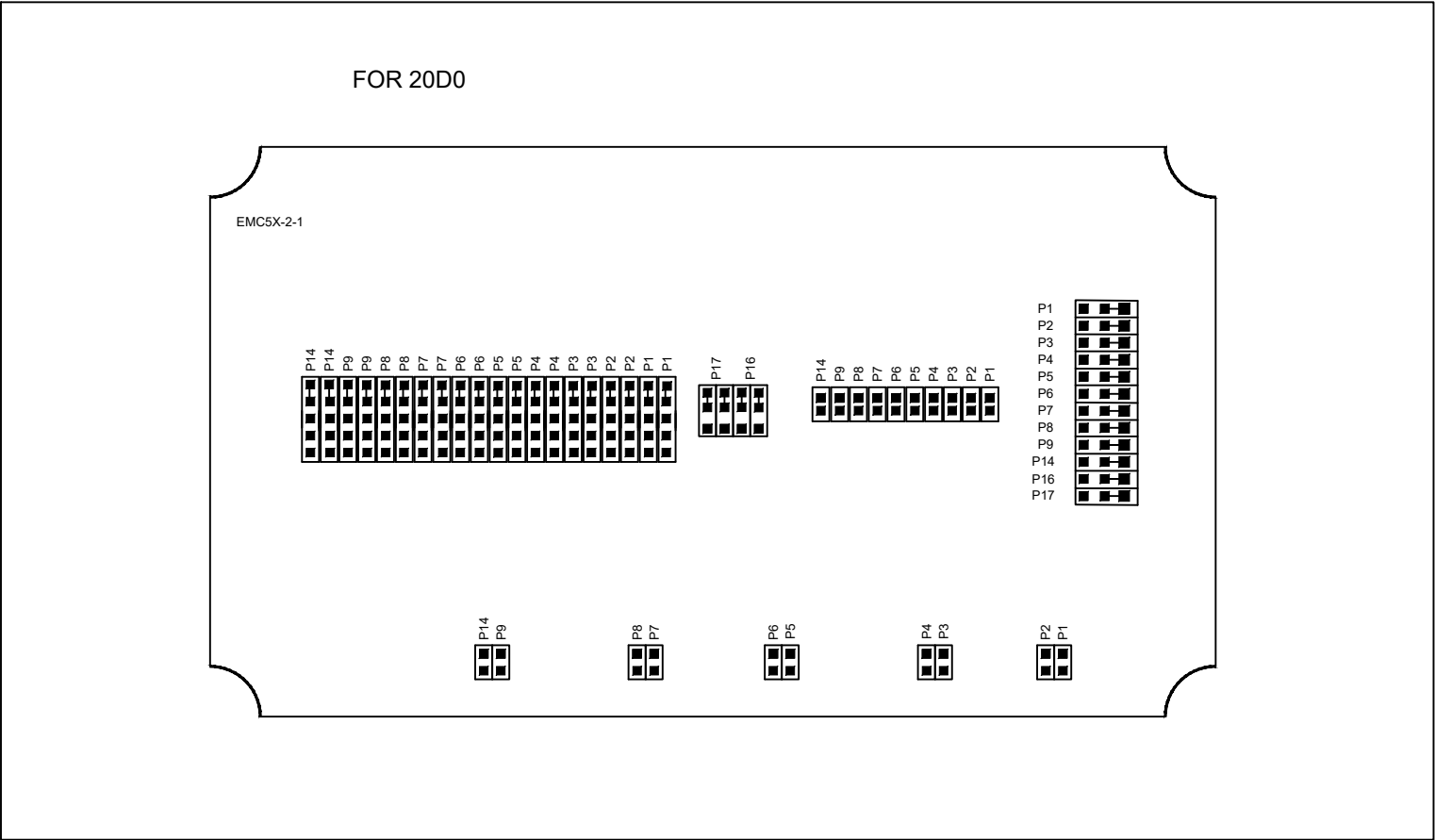
SPINDLE FAN

BOX FAN

SPINDLE THERMAL
CONTACT

WATER PRESSURE
SWITCH

ALARM LIGHT



OUTPUT CONTROL CARD JUMPERS SETTINGS



0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Pg.	Code	Name	Mfrs.	Model
3	3QS3	Travel Switch	SNJDQ	LX19-001 AC240VDC220V3A
3	3HL3	OPEN DOOR LIGHT ON	--	T5 12W/220V
3	3QS5	General Switch	GLELE	GLD11-63/08 +4P
3	3S16	Filter	DOTHINK	DTT2121-50-S16-S77480V50A
3				
4	4P0	Power Supply	MW	EDR-120-24 24V5A
4	4Q0	Circuit Breaker	Schneider	C65H-DC C4A 1P
4	4T3	Transformers	CHNT	NDK(BK)-150
4	4Q3	Circuit Breaker	Schneider	IC65N D10A 2P
4	4Q4	Circuit Breaker	Schneider	IC65N D4A 1P
4	4Q6	Circuit Breaker	Schneider	IC65N D10A 2P
4	4M9	Grease Pump Motor	ML	MYK-202-200-0 15W/220V 2L
4	4Q12	Circuit Breaker	Schneider	IC65N D10A 2P
4	4P12	Power Supply	MW	EDR-120-24 24V5A
4	4P13	Power Supply	MW	MDR-60-5 5V10A
4	4Q11	Circuit Breaker	Schneider	C65H-DC C4A 1P
4	4Q13	Circuit Breaker	Schneider	C65H-DC C4A 1P
4				
5	5P4	Volt-ammeter	OUXIN	D85-2042A AC80-300V/200-450V
5				
6	6Q3	Circuit Breaker	Schneider	IC65N D10A 3P
6	6M3	Vacuum Pump Motor	WANJING	2BV2061 220V 60Hz
6	6Q6	Circuit Breaker	Schneider	IC65N D20A 3P
6	6S6	Filter	DOTHINK	DTT2121-50-S16-S77480V50A
6	6S9	Frequency Converter	MK	SDC-CM-2T035-GP3R-1000
6	6R13	Braking Resistor	--	1500W40Ω
6	6M11	Spindle Motor	MK	DHG10-3-48-7.5/11-4-1500
6				
7	7KA18	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
7				
8	8SD8	CNC Controler	AITEK	9 AXIS CNC-KT38
8				
8				
9	X 9Q1	Circuit Breaker	Schneider	IC65N D10A 2P
9	Y1 9Q3	Circuit Breaker	Schneider	IC65N D10A 2P
9	Y2 9Q4	Circuit Breaker	Schneider	IC65N D10A 2P
9	Z 9Q6	Circuit Breaker	Schneider	IC65N D10A 2P
9	B 9Q7	Circuit Breaker	Schneider	IC65N D10A 2P
9				

Pg.	Code	Name	Mfrs.	Model
10	10M2	X Motor	Leadshine	ACM13013H2F-40-L 1.3KW 1500r/min
10	X 10L4	X Servo Drive	Leadshine	L5-1300Z
10	10M8	Y1 Motor	Leadshine	ACM13013H2F-40-L 1.3KW 1500r/min
10	Y1 10L10	Y1 Servo Drive	Leadshine	L5-1300Z
10	10M15	Y2 Motor	Leadshine	ACM13013H2F-40-L 1.3KW 1500r/min
10	Y2 10L17	Y2 Servo Drive	Leadshine	L5-1300Z
11	11M4	Z Motor	Leadshine	ACM13013H2E-40-L 1.3KW 1500r/min
11	Z 11L6	Z Servo Drive	Leadshine	L5-1300Z
11	11KA10	Fuse	CHE	FS-101 DC24V 2A
11	11M12	B Motor	Leadshine	ACM13013H2F-40-L 1.3KW 1500r/min
11	B 11L14	B Servo Drive	Leadshine	L5-1300Z
11				
12	12E1	Computer Power On/Off	Aitalmac	--
12	12SD8	CNC Controler	AITEK	9 AXIS Windows-KT48
12	12E13	USB-Mouse	Lenovo	M300
12	12E14	USB-Keyboard	Logitech	K310
12	12E15	USB-WIFI	COMFAST	CF-7201ND
12	12E16	Monitor	Anmite	AN-195W01D
12	12P17	Power Supply	--	--
12	12FU17	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
12				
13	13SB3	Enable Key Button	RENY	RBSNK-2-1A
13	13SB3.1	Power On Button	RENY	R2PIF-1D-2-LG
13	13KA5	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
13	13SB5.1	Emergency Button	Schneider	XALJ01C 1NC
13	13SB5.2	Emergency Button	RENY	R2PNR4-1B-R
13	13SB5.3	Emergency Button	Schneider	XALJ01C 1NC
13	13SB5.4	Emergency Button	RENY	R2PNR4-1B-R
13	13KM3	Contacto	Schneider	LC1D50AB7C-LADN11
13	13SB9	Vacuum Switch	RENY	RBSNK-2-1A-LG
13	13KM9	Contacto	Schneider	LC1D18B7C
13	13QS14	Vacuum Pressure Switch	YXC	ZXC-100, -0.1-0MPA
13	13KA14	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
13	13KA15	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
13				
14	14EV2	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
14	14EV4	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
14	14EV6	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
14	14EV8	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
14	14FU12	Fuse	CHE	FS-101 DC24V 2A
14	14E15	Z Brake	Leadshine	- -
14				

Pg.	Code	Name	Mfrs.	Model
15	15D0	LPT1 Output Card	AITEK	6AXIS-Mod-V5-OUTPUT mode
15	15QS9	Air Pressure Switch	SQW	QPM11-NC
15	15SQ12	Z Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
15	15SQ13	Y2 Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
15	15SQ14	Y1 Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
15	15SQ15	X Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
15				

18	18D0	LPT2 Input Card	AITEK	6AXIS-Mod-V5-INPUT mode
18	18EV4	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
18	18KA6	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
18	18EV7	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
18	18EV9	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
18	18SB10	CLAMP Button	RENY	R2PIF-1D-2G
18	18EV11	Solenoid Valve	CNSY	4V210-08 G1/4 DC24V
18				

20	20D0	LPT3 Output Card	AITEK	6AXIS-Mod-V5-OUTPUT mode
20	20KA1	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
20	20KA3	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
20	20KA5	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
20	20KA7	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
20	20SQ13	Cylinder Sensor	CHVIRD	CS1-U
20	20SQ14	Cylinder Sensor	CHVIRD	CS1-U
20	20SQ15	B Limit Sensor	IBEST	IPSI-12NO2B-L60mm(NPN NO 2mm 200mA)
20	20KA15	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
20				

22	22D0	LPT4 Input Card	AITEK	6AXIS-Mod-V5-INPUT mode
22	22SB6	A.T.C Button	RENY	R2PIF-1D-2G
22	22KA8	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
22	22SB10	Confirm Button	RENY	R2PIF-1D-2G
22	22SB12	Auto Button	RENY	R2PIF-1D-2G
22				

23	23E4	Speed Control Wheel	AITEK	24V 4P
23	23HL6	Alarm Light	TAYB	TB50-4T-D DC24V
23	23SB13	Stop Button	RENY	R2PIF-1D-2R
23	23SB15	Pause Button	RENY	R2PIF-1D-2Y
23				

24	24D13	REMOTE	AITEK	SK-B-021-100 5V 4P
24	24SB12	Remote Button	AITEK	- -
24	24FU17	Fuse	CHE	FS-101 DC24V 2A
24	24SB18	LASER Switch	RENY	RBSNK-2
24	LASER	Cross Laser	- -	Las2 Φ12mm
24				

Pg.	Code	Name	Mfrs.	Model
25	25FU2	Fuse	CHE	FS-101 DC24V 2A
25	25E2	FAN	PAPST	TYP4114N/12MR 24V 6W 12CM
25	25FU4	Fuse	CHE	FS-101 DC24V 2A
25	25E4	FAN	PAPST	TYP4114N/12MR 24V 6W 12CM
25	25KA7	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
25	25QS10	Water Pressure	- -	PC-3A
25	25QS11	Water Pressure	- -	PC-3A
25	25QS12	- -	- -	- -
25	25D14	Alarm Lab	- -	- -
25				

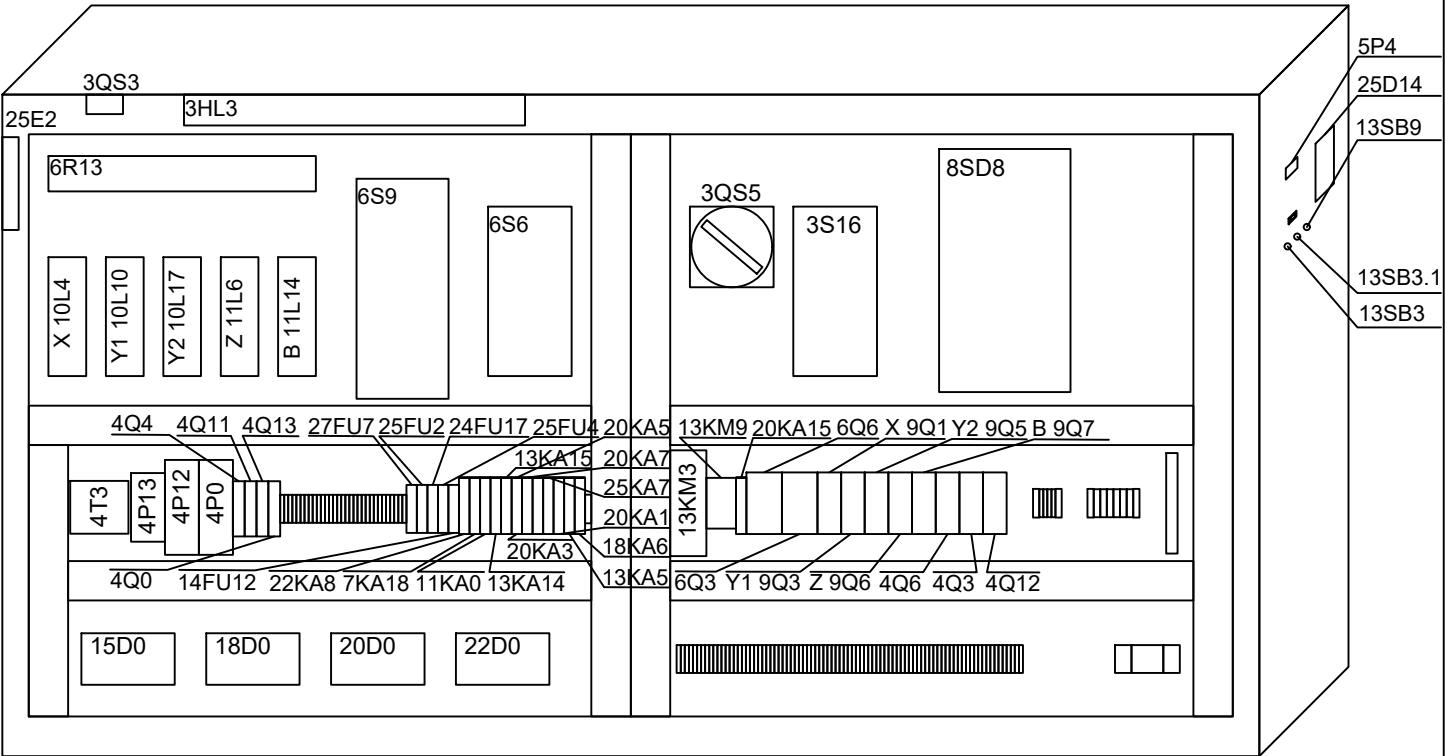
27	27FU7	Fuse	CHE	FS-101 DC24V 2A
27	27E7	Safety Light Barrier/T	ANLIAN	ABI10-482 6L 10M
27	27E8	Safety Light Barrier/R	ANLIAN	ABI10-482 6L 10M
27	27SQ13	Cylinder Sensor	CHVIRD	CS1-U
27	27KA13	Terminal Relay	OMRON	G2R-2-SND(S) DC24V+P2RF-08-E
27				

Inverter Parameter

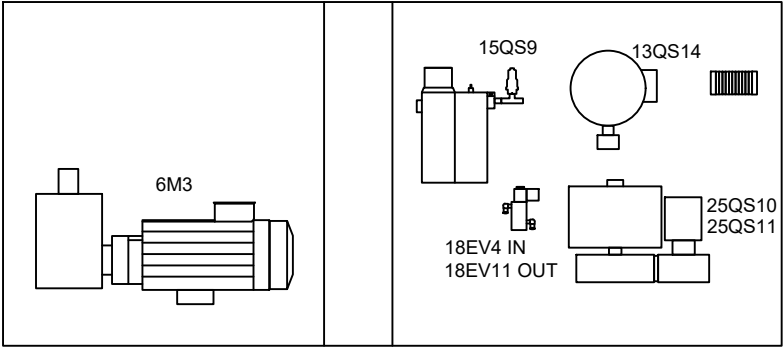
NAME	ADDRESS	DESCRIPTION	RANGE	DEFAULT	UNITS
P01_00	0x2100	Motor type coding	0~999999	0	-
P01_01	0x2102	Motor pole number	0~64	4	-
P01_02	0x2104	Motor rated power	0~1000	50	Hz
P01_04	0x2108	Motor rated voltage	1~3000	220	V
P01_05	0x210A	Motor rated current	0~1000	26.5	A
P01_06	0x210C	Motor rated torque	0~5000	48	N.m
P14_00	0x2260	Type of motor encoder 0: no encoder, 1: photoelectric encoder, 2: incremental rotary transformer, 3: incremental magnetoresistive encoder		1	-
P22_01	0x2352	External pulse type	0: AB , 1: PD , 2: CW	2	-
P23_10	0x236C	Input0:Rotation direction	0: positive rotation, 1: reversal	0	
P23_12	0x2370	Input2:parking position	2: parked 0 , 3: parked 1	2	
P23_14	0x2374	Input4:control model	4: position control	4	
P24_10	0x23B8	Output0:Alarm	0: alarm output	0	
P24_11	0x23BA	Output1:Speed	9: zero speed arrival	9	
P24_12	0x23BC	Output2:	1: stop in place	1	
P35_00	0x2594	INERTIA COEFFICIENT OF POSITION RING	0~2.0	0.05	
P35_01				0.05	
P53_02	0x2884	Position instruction type 0:0~10V, 1: + 10V, 2: external pulse, 3:mBUS absolute type, 4:mBUS interpolation		2	
P54_07	0x290E	Punctual Stop Positioning Rigidity	0.00001~0.1	0.0001	-
P54_12	0x2918	First quasi-stop position	0~999999	4510	Pulse
P55_02	0x2984	Speed instruction type 0:0~10V, 1: + 10V, 2: external pulse, 3:mBUS, 4:16 speed		2	
P55_05	0x298A	Maximum Speed (Speed Control)	0~30000	10000	rpm
P55_13	0x299A	Speed instruction gear ratio	0~10000	2	-

Servo Driver Parameter

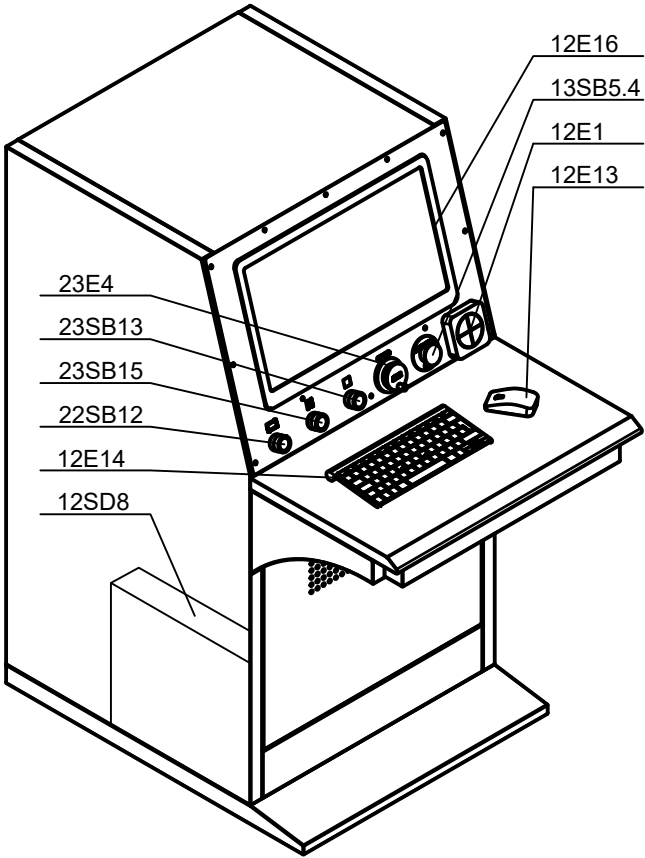
NAME	RANGE	X	Y1	Y2	Z	B
PA003		13	13	13	13	12
PA004		750	750	750	750	1550
PA006		0	0	0	0	0
PA008		5000	5000	5000	5000	5000
PA222		100	100	100	100	1250
PA410		181	181	181	181	181
PA529		53	53	53	53	53
PA531		1	2	3	4	5



5P4
25D14
13SB9
13SB3.1
13SB3



X00



X01

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
AitalMac www.aitalmac.com		Designed By : ZLJ				Checked By :				Trimness By :				Description :					
		Machine : KT48						Date: 07.23.2019			Revision: KT48-190604				Approved By :			Pag. 32	Next. ./.